- (B3) supplying said coolant into the coolant path to cool the substrate when the substrate temperature is changed by the loading of the substrate on the placing table or a predetermined time after the change in the substrate temperature; and
- (C3) unloading the substrate from the placing table after the substrate temperature is rendered lower than the target temperature to warm the substrate to the target temperature within an atmosphere having a temperature almost equal to the target temperature.
- 16. (New) A cooling method for cooling a substrate loaded on a placing table by supplying a coolant having a temperature lower than a target temperature into a coolant path arranged in said placing table, comprising the steps of:
- (A4) setting the temperature of said placing table at a temperature almost equal to the target temperature before the substrate is loaded on the placing table;
- (B4) supplying said coolant into the coolant path to cool the substrate when or a predetermined time after the substrate is loaded on the placing table; and
- (C4) unloading the substrate from the placing table after the placing table is cooled to a temperature lower than the target temperature to warm the substrate to the target temperature within an atmosphere having a temperature almost equal to the target temperature.
- 17. (New) A cooling method for cooling a substrate to a target temperature by allowing said substrate to be received by delivery means in an upper portion of a placing table, moving downward said delivery means to load the received substrate onto said placing table, and supplying a coolant having a temperature lower than a target temperature into a coolant path arranged in the placing table, comprising the steps of:
- (A5) setting the temperature of the placing table at a temperature almost equal to the target temperature before the delivery means is moved downward;

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